

PC37.100.1 – WG on Switchgear Common Requirements

October 15, 2018 – Kansas City, MO Downtown Marriott



Chair: Antone Bonner

Vice Chair: Donnie Swing

Meeting Minutes

1. Call to order and introduction:

- Meeting was called to order at 1:31 PM.
- The attendance sheet was circulated, and each person introduced themselves and identified their affiliation.

2. IEEE Patent Slides:

- All four standard IEEE patent slides displayed
- Time was allowed for members to respond. No comments were received after the time was provided.

3. Roster Check:

- There were (93) Attendees of which (09) are members. (04) members were excused. There are a total of (18) members on the working group. A quorum was present. See attendance details in Annex.

4. Previous Meeting Minutes:

- The working group has not met for an extended period. There were no notes to approve.

5. Meeting Highlights:

- The Chair explained that the propose for the current C37.100.1 project is to reaffirm the C37.100.1-2007 edition with required editorial updates but without significant technical change. The 2007 edition is due to be withdrawn as an IEEE standard at the end of 2018. This effort will extend the life of the standard.

- Sponsor ballot of Draft 1

1. Ballot group formed in August 2018

158 balloters joined the group with a sufficient mix of interests to be a valid balloting group.

2. Draft 1 ballot results

Ballot open date: 10-Sep-2018

Ballot close date: 10-Oct-2018

Type of ballot: Revision

Draft #: 1
Comments: 209
Must be satisfied comments: 50

Response Rate: The ballot met the returned ballot requirements of a minimum of 75%.

Of 158 eligible persons in the ballot group there were

121 affirmative votes

10 negative votes with comments

0 negative votes without comments

5 abstention votes

The 136 votes returned is 86% of the group with 3% abstention

Approval Rate: The ballot met the affirmation requirement of a minimum of 75%.

Of the 131 votes (not including abstentions):

121 affirmation votes

10 negative votes with comments

The 121 affirmative votes result in a 92% affirmative vote.

- Ballot D1 comment resolution

The ballot comments were discussed in five groupings.

1) 83 reference-related comments (both internal and external references) involving updating dates of referenced standards, replacing references that were obsolete, correcting internal document clause numbers, etc.. By motion, the WG approved the Chair and Vice Chair to make corrections as they see fit.

2) 24 comments that called for the elimination of all the changes made to clause numbering with respect to hanging paragraphs. These comments were discussed with IEEE and it was determined that the format changes and the resulting clause numbering must stay as presented in the ballot D1. By motion, the WG approved that the Chair and Vice Chair reject these comments.

3) 10 comments that involved technical additions or changes. Since the purpose of the ballot is to maintain the standard's viability past the end of the year by reapproving a reformatted version of the 2007 edition of the standard, no additions to nor expansions of technical content could be considered. By motion, the WG approved that the Chair and Vice Chair reject these comments.

4) 70 comments requesting minor editorial changes. By motion, the WG approved the Chair and Vice Chair to make corrections as they see fit.

5) 22 comments requiring detailed discussion. The WG members voted on each comment to accept, revise, or reject it. The results of the discussion are in the ballot comments template.

- Next steps

Based on the working group decisions, the draft will be revised and submitted to RevCom Monday October 15, to be considered for approval at their December meeting.

Note: After the working group meeting was adjourned, it was determined that a recirculation of the ballot, using draft D2, would be required by RevCom. The recirculation ballot was initiated on October 16 with a closing date of October 26.

6. New Business;

- None.

7. Next meeting:

- Spring 2019: Burlington Hilton, Burlington, VT April 28 - May 2, 2019 (if needed)

8. Meeting was adjourned at 4:00 PM

Submitted by:

Name: J. Antone Bonner

Date: November 1, 2018

Annex: Oct 15, 2018 Working Group Meeting Attendance

| <u>Role</u> | <u>First Name</u> | <u>Last Name</u> | <u>Company</u> |
|----------------------|-------------------|------------------|--|
| Chair | Antone | Bonner | PAS Consulting |
| Vice-Chair | Donald | Swing | Powell Industries |
| Guest | Janet | Ache | G&W Electric |
| Guest | Peter | Agliata | Hubbell Power Systems |
| Guest | Edwin | Almeida | Southern California Edison |
| Member | Chris | Ambrose | Federal Pacific (Div. of Electro-Mechanical Corp.) |
| Guest | Georges | Auguste | Ameren MO |
| Guest | Thomas | Ballard | Hubbell Power Systems |
| Guest | David | Beseda | S&C Electric Co. |
| Guest | Gautami | Bhatt | Bechtel OGC |
| Guest | Jacob | Blake | Hubbell Power Systems |
| Guest | Brett | Boles | Southern Company |
| Member | Russell | Boyce | Eaton |
| Guest | Arben | Bufi | Hitachi T&D Solutions, Inc. |
| Guest | James | Carter | Pascor Atlantic |
| Guest | Stephen | Cary | ABB |
| Member | Steven | Chen | Eaton Corporation |
| Guest | Andrew | Chovanec | GE Power |
| Guest | Brad | Connor | Xcel Energy |
| Guest | Timothy | Cook | Pascor Atlantic |
| Guest | Jason | Cunningham | Southern States, LLC |
| Member | Frank | DeCesaro | Eaton's Power Systems Division |
| Guest | Federico | Di Michele | CESI S.p.A. |
| Member | Edgar | Dullni | ABB |
| Guest | Bernie | Dwyer | PECO |
| Guest | Doug | Edwards | Siemens Industry, Inc. |
| Corresponding Member | Ken | Edwards | FirstEnergy Corp. |
| Guest | Karl | Fender | Southern States LLC |
| Guest | Michael | Flack | Southern Company Services, Inc. |
| Member | Sergio | Flores | Schneider Electric Inc. USA |
| Guest | Keith | Flowers | Siemens Industry, Inc. |
| Member | Paul | Found | BC Hydro |
| Guest | Christopher | French | Eaton Corporation |
| Guest | Paul | Gingrich | AZZ Switchgear Systems |
| Guest | Ilya | Glinsky | Southern California Edison |
| Guest | Sahadev | Gohil | AZZ Switchgear Systems |
| Guest | Paul | Grein | Circuit Breaker Sales, Co, Inc, - GroupCBS |
| Guest | Gary | Haynes | ABB Inc. |
| Guest | Victor | Hermosillo | GE Grid Solutions |
| Guest | Danny | Hoss | Southern States LLC |
| Guest | James | Houston | Southern Company Transmission |
| Guest | Bill | Hurst | GE |

| <u>Role</u> | <u>First Name</u> | <u>Last Name</u> | <u>Company</u> |
|----------------------|-------------------|------------------|-------------------------------|
| Guest | Todd | Irwin | GE Grid Solutions |
| Guest | Bharatwaj | Jagadeesan | Southern States LLC |
| Guest | Christopher | Jarnigan | Southern Company Services |
| Guest | Travis | Johnson | Xcel Energy |
| Guest | John | Kaminski | Siemens |
| Guest | Brendan | Kirkpatrick | Southern California Edison |
| Guest | Peter | Kowalik | Cleveland/Price Inc. |
| Guest | Ryan | Kowdley | Pacific Gas & Electric |
| Guest | Monique | La Terreure | STACE |
| Guest | Michael | Lafond | ABB |
| Guest | Marc | Lesperance | S&C Electric Canada Ltd. |
| Guest | Qian | Li | Powertech Labs INC. |
| Member | Hua Ying | Liu | Southern California Edison |
| Guest | Benson | Lo | Toronto Hydro |
| Guest | Donald | Martin | G&W Electric Co. |
| Guest | Peter | Marzec | S&C Electric Co. |
| Guest | Neil | McCord | KEC Precision |
| Corresponding Member | David | McMullen | Georgia Power Company |
| Guest | Steven | Meiners | GE |
| Corresponding Member | Peter | Meyer | S&C Electric Company |
| Guest | Stephanie | Montoya | Southern California Edison |
| Guest | Christopher | Morton | Powertech Labs Inc. |
| Guest | Terry | Neighbours | ABB Inc. |
| Guest | Roberto | Olivares | Siemens |
| Guest | Mary | Owens | Eaton |
| Guest | Stephen | Pell | Siemens |
| Guest | Andrew | Peterson | ABB |
| Guest | Mark | Peterson | Xcel Energy |
| Guest | John | Phouminh | PEPCO HOLDINGS, INC. |
| Guest | Al | Pruitt | The Durham Company |
| Guest | Larry | Putman | Powell |
| Member | Samala Santosh | Reddy | Powell Industries |
| Corresponding Member | Carl | Reigart | CDR Technical Services, LLC |
| Guest | Anthony | Ricci | FirstEnergy Corp. |
| Guest | Dave | Riffe | Westinghouse Electric Company |
| Guest | Mark | Roberson | AZZ/Calvert |
| Guest | Brian | Roberts | Southern States, LLC |
| Corresponding Member | Ian | Rokser | Eaton Corp |
| Corresponding Member | Hugh | Ross | Ross Engineering Corporation |
| Member | Devki | Sharma | Entergy |
| Guest | Garett | Sims | Eaton Corp. |
| Guest | Michael | Skidmore | AEP |
| Guest | Francois | Soulard | Hydro-Quebec |

| <u>Role</u> | <u>First Name</u> | <u>Last Name</u> | <u>Company</u> |
|-------------|-------------------|------------------|-------------------------------|
| Guest | Chand | Tailor | Eaton Corporation |
| Guest | Karla | Trost | G&W Electric |
| Guest | Jordan | Tsvetanoff | First Energy |
| Guest | Joseph | Usner | American Electric Power (AEP) |
| Guest | James | van de Ligt | CANA High Voltage Ltd. |
| Guest | Nick | Vonfeldt | Ameren Missouri |
| Guest | Randy | Ward | Aluma-Form |
| Guest | Matt | Westerdale | Bureau of Reclamation |
| Guest | Michael | Whitney | S&C Electric Company |
| Guest | Terrance | Woodyard | Siemens Industry Inc. |
| Guest | Wei | Zhang | Hitachi T&D Solutions, Inc. |
| Guest | Xi | Zhu | GE Energy Management |